

Application No.: 09/817,123

Docket No.: 21987-00054-US

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all previous versions and listings of claims in this application.

1. (Currently amended) A game apparatus comprising:

a body including a first control device for transmitting and receiving data required in terms of ~~a~~an advancement in a game; and

plural game parts-pieces arranged on the body, each of the plural game pieces including a data carrier having a second control device-means for transmitting and receiving driving electric power as well as for mutually and transferring the data between said game part-a respective one of said plural game pieces and said body, and

a multi-value memory stored with information-containing therein said each of the plural game pieces, said multi-value memory containing identifying information relating to the respective one of said plural game pieces,

said multi-value memory being provided a plurality of multi-value cells, each of said multi-value cells being capable of storing one from states which are taken by three or more predetermined values as storing information relating to at least one of a particular game piece identification and sequential location information.

2. (Withdrawn) A game apparatus comprising:

an apparatus body having apparatus-side control means for controlling a whole apparatus;  
and

a plurality of pieces, each incorporating a data carrier for transmitting driving electric power and performing mutual communications in non-contact with said apparatus body, to which different values are allocated,

Application No.: 09/817,123

Docket No.: 21987-00054-US

wherein a win and a defeat are determined based on the values of the pieces selected by opponents among said plurality of pieces.

3. (Withdrawn) A game apparatus comprising:

an apparatus body; and

a plurality of small playing members each having a data carrier for transmitting driving electric power and performing mutual communications with said apparatus body,

wherein the number of points is added by said apparatus body when a change is given from the outside to an arbitrarily selected small playing member among said plurality of small playing members under a predetermined condition.

4. (Canceled).

5. (Withdrawn) An information communication method of transmitting and receiving information between a reader and a non-contact type data carrier in a non-contact manner, said method comprising:

a first step of transmitting a radio wave from said reader;

a second step of receiving the radio wave transmitted from said reader through a coil and generating operating electric power of said non-contact type data carrier;

a third step of detecting that said operating power generating means generates a predetermined quantity of electric power and notifying said reader of this detection;

Application No.: 09/817,123

Docket No.: 21987-00054-US

a fourth step of interrupting the transmission of the radio wave from said reader when notified of the effect that the predetermined quantity of electric power is generated;

a fifth step of resuming the transmission of the radio wave when a predetermined time elapses since the transmission of the radio wave was interrupted;

a sixth step of making a judgement about the surface and the underside of a card body on the basis of a direction of an electric current induced in said coil when the transmission of the radio wave resumes;

a seventh step of operating a first function provided in said data carrier when judging in said sixth step that the surface of said card body is set in a required direction; and

an eighth step of operating a second function provided in said data carrier when judging in said sixth step that the underside of said card body is set in the appropriate direction.

B2

6. (Currently amended) An information communication system comprising:

a data carrier having an information receiving unit for receiving information from the outside,

a multi-value memory and a control unit for executing a process for the outside on the basis of the information received by said information receiving unit and a storage content of said multi-value memory; and

a reader for executing a process by transmitting necessary information to said data carrier and receiving the radio wave transmitted from said data carrier,

a game apparatus comprising:

a body including a first control device for transmitting and receiving data required in terms of a advancement in a game; and

Application No.: 09/817,123

Docket No.: 21987-00054-US

plural game parts-pieces arranged on the body, each of the plural game pieces including:

a data carrier having a ~~second control device means~~ for transmitting and receiving driving electric power ~~as well as for mutually~~ and transferring the data between an associated one of said plural game part-pieces and said body, and

a multi-value memory ~~stored with information~~ containing ~~the~~ at least identifying information relating to said associated one of said plural game pieces, said multi-value memory ~~being provided~~ including a plurality of multi-value cells, each of said multi-value cells being capable of storing at least one from states which are taken by of three or more predetermined values ~~as storing information~~.

B2 7. (Original) The information communication system according to claim 6, wherein said multi-value memory stores data necessary for processing and/or a program.

8. (Original) The information communication system according to claim 6, wherein said multi-value memory stores data for identifying an individual.

9. (Currently amended) The information communication system according to claim 6, wherein said data carrier further comprises a contact terminal part at which transmitting and receiving are performed by touching it to a part of an external device, ~~whereby the carrier functioning as wherein the data carrier is a contact type data carrier.~~

10. (Original) The information communication system according to claim 6, wherein said information receiving unit of said data carrier includes an antenna and receiving means for

Application No.: 09/817,123

Docket No.: 21987-00054-US

obtaining necessary electric power and information through an electromagnetic induction by the radio waves transmitted outside and received by said antenna.

11. (Original) The information communication system according to claim 10, wherein said receiving means includes a resonance circuit and operation power generating means for outputting electric power obtained by said resonance circuit.

12. (Original) The information communication system according to claim 6, wherein said multi-value memory stores data for identifying an individual carrying said data carrier.

B2 13. (Original) The information communication system according to claim 9, wherein said data for identifying an individual include at least one of a driver's license data, passport data, a bank account number for a financial institute, physical features data, DNA data, fingerprint data and voiceprint data, etc

14. (Original) The information communication system according to claim 6, wherein said multi-value memory stores information on an object moving said data carrier.

15. (Currently amended) The information communication system according to claim 6, wherein said data carrier includes positional relationship detecting means for ~~detection~~ detecting a positional relationship with respect to said ~~receiving means~~ information receiving unit, and function selecting means for executing a process corresponding to a result of the detection by said positional relationship detecting means.

Application No.: 09/817,123

Docket No.: 21987-00054-US

16. (Withdrawn) An automated traveling control system for executing a process corresponding to a kind of a carrier object traveling by a gate, comprising:

first and second gates; a carrier object traveling by said first and second gates and mounted with an inquiry machine for transmitting a radio wave containing information;

a partition wall for partitioning said first and second gate from each other; and a non-contact type data carrier embedded into said partition wall and including a control unit for detecting which side of said first or second gate by receiving the incoming radio wave transmitted from said inquiry machine and executing an opening/closing process of said gate at least on the relevant side depending on any one of said first and second gate sides.

17. (Withdrawn) A readable medium stored with a program code for making a computer transmit and receive information between a data carrier reader and a non-contact type data carrier in a non-contact manner, said readable medium being stored with:

first code means for executing a first step of transmitting a radio wave from said data carrier reader;

second code means for executing a second step of receiving the radio wave transmitted from said data carrier reader through a coil and generating operating electric power of said non-contact type data carrier;

third code means for executing a third step of detecting that said operating power generating means generates a predetermined quantity of electric power, and notifying said data carrier reader of this detection;

fourth code means for executing a fourth step of interrupting the transmission of the radio wave from said data carrier reader when notified of the effect that the predetermined quantity of electric power is generated;

Application No.: 09/817,123

Docket No.: 21987-00054-US

fifth code means for executing a fifth step of resuming the transmission of the radio wave when a predetermined time elapses since the transmission of the radio wave was interrupted;

sixth code means of executing a sixth step of making a judgement about the surface and the underside of said data carrier on the basis of a direction of an electric current induced in said coil when the transmission of the radio wave resumes;

B2 seventh code means for executing a seventh step of operating a first function provided in said data carrier when judging in said sixth step that the surface of said data carrier body is set in a required direction; and

eighth code means for executing an eighth step of operating a second function provided in said data carrier when judging in said sixth step that the underside of said data carrier is set in the appropriate direction.

Claims 18-38 (Canceled).

---